Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A magnetron, in which both a strap-engaging concave portion for joining a strap ring and a strap-inserting concave portion for inserting therethrough the strap ring in a non-contact manner are provided on an upper edge and a lower edge of each of anode vanes in ~~such~~ a manner that the strap-engaging concave portion and the strap-inserting concave portion are positionally shifted from each other along a radial direction of an anode tubular body; the anode vanes arranged along a circumferential direction are electrically connected to each other ~~every one vane~~ by any one of a small-diameter strap ring and a large-diameter strap ring coaxially arranged with respect to a center axis of the anode tubular body, is joined to the strap-engaging concave portion; and a microwave radiating antenna passing through an output-sided magnetic piece in a non-contact manner is joined to one anode vane among the ~~plural~~ anode vanes,

wherein, in such a case that a radial dimension of an outer circumference of the small-diameter strap ring is s1 a radial dimension of an inner circumference of the large-diameter strap ring is s2 a radius of a circumference

inscribed to tip portions of the anode vanes is a and a radius of a central flat portion of the output sided magnetic piece located in ~~the~~ a vicinity of each of the anode vanes is "Rp", ~~the~~ values of Ra, Rs1, Rs2, Rp are set in ~~such~~ a manner that ~~the~~ satisfies both following formulae (1) and (2) ~~can be established~~:

$$1.85Ra \leq (Rs1+Rs2)/2 \leq 1.96Ra \quad \cdots (1)$$

$$Rs1 < Rp < Rs2 \quad \cdots (2).$$

Claim 2 (currently amended): A magnetron according to claim 1 wherein a depth dimension of the strap-engaging concave portions provided on the ~~upper/lower~~ upper and/or lower edges of each of the anode vanes is set in ~~such~~ a manner that the strap rings engaged with the strap-engaging concave portions are sunk inwardly with respect to the ~~upper/lower~~ upper and/or lower edges of each of the anode vanes.

Claim 3 (original): A magnetron according to claim 1 wherein an interval along an axial direction between an output-sided end hat provided on one edge of a cathode and the upper edge of each of the anode vanes is set to 0.2 to 0.4 mm.

Amendments to the Drawings:

The attached sheets of drawings includes changes to Figs. 10, 11, 12(a)-(e) and 13. These sheets, which includes Figs. Figs. 9, 10, 11, 12(a)-(e) and 13, replaces the original sheets including Figs. 9, 10, 11, 12(a)-(e) and 13. Figs. Figs. 10, 11, 12(a)-(e) and 13 have been labeled as "Prior Art".

Attachment: Replacement Sheets (3 total)